|          | Index of Claims   |          |                     |             |         |                 |               |                 |               |              |       |   |          | Application/Control No. |           |                 |                |            |             |                |              |          | A        | Applicant(s)/Patent under Reexamination |            |                      |                     |                |                  |          |                         |                 |               |           |     |
|----------|-------------------|----------|---------------------|-------------|---------|-----------------|---------------|-----------------|---------------|--------------|-------|---|----------|-------------------------|-----------|-----------------|----------------|------------|-------------|----------------|--------------|----------|----------|---|------------|----------------------|---------------------|----------------|------------------|----------|-------------------------|-----------------|---------------|-----------|-----|
|          |                   | HIII     | , 11<br>  [[[]] ] ] | 70 c        | ex .    | D) \<br>NIIII   | <i>ال</i><br> | 1777.<br>1778 ( | 75<br>        |              |       |   |          |                         |           | ,               | · ^//          | <b>~41</b> | · 6/        | 2 Q            |              |          |          | i                                       | 1          |                      |                     |                |                  |          |                         |                 |               |           |     |
|          |                   |          |                     |             |         |                 |               |                 |               |              |       |   |          | E                       | xa<br>xa  | 041<br>mir      | ner            | 90         |             |                | _            | _        |          |   |            | OHSHITA ET AL.       |                     |                |                  |          |                         |                 |               |           |     |
| ı        |                   |          |                     |             |         |                 |               |                 |               |              |       |   |          |                         | siki      | ha l            | Ro             | ٧          |             |                |              |          |          | -                                       | 2          | 2879                 |                     |                |                  |          |                         |                 |               |           |     |
|          |                   |          | _                   | <del></del> |         |                 | ——<br>1       |                 | $\overline{}$ | _            | _     |   |          |                         | _         |                 |                |            |             |                |              |          |          |   |            | _                    | _                   | <u> </u>       | <u> </u>         |          | _                       | _               | 1             | _         |     |
|          | √ Rejected (      |          |                     |             |         |                 |               |                 |               |              | (T)   | Through numeral)<br>Cancelled           |          |                         |           |                 |                | N Non-El   |             |                | Ξle          | ected    |          |   | A          | L                    | <u>_</u>            | /pp            | 9 <del>8</del> 8 | 1        |                         |                 |               |           |     |
|          | = Allowed         |          |                     |             |         |                 |               |                 | +             | + Restricted |       |   |          |                         | _         | _               |                |            | In          | terf           | ere          | rence    |          |   | 0          |                      | 01                  | bje            | cte              | )d       |                         |                 |               |           |     |
| · [      | Claim Dat         |          |                     |             |         |                 | <u>-</u>      | _               |               |              |       | CI                                      | Claim    |                         |           |                 | _              | Date       | ate         |                |              | _<br>ק⊪  | _<br>  [ |   | aim        | Τ_                   | _                   | _              | _<br>_           | Date     | <br>8                   |                 | ·<br>         |           | 1   |
| [        |                   |          | ٦                   | П           | $\top$  | Ī               | П             | П               | Т             |              |       |   | T        | 十                       | Τ         | Γ               |                | $\Box$     | П           | $\sqcap$       | T            | 7        | Γ        |   |            | $\Box$               | $\Box$              | $\Box$         | $\sqcap$         | $\Box$   | $\Box$                  | $\Box$          | $\Box$        |           |     |
|          | Final             | Original | 9/26/05             |             |         |                 |               |                 |               |              |       | Final                                   | Original |                         |           |                 |                |            |             |                |              |          |          | Final                                   | Original   |                      |                     |                | ,                |          |                         |                 |               |           |     |
| }        | $\dashv$          | 1        | . 1                 | $_{\rm L}$  | +       | +-+             | 十             | +               | $\dashv$      | $\dashv$     |       | $\vdash$                                | 51       |                         | 十         | $\vdash$        | $\vdash$       | H          | H           | $\dashv$       | 士            | -        | H        | $\dashv$                                | 101        | Н                    | $\vdash$            | $\dashv$       | $\dashv$         | $\vdash$ | $\vdash$                | $\vdash$        | $\vdash$      | $\vdash$  |     |
| Ţ        |                   | 2        | V                   | 口           | 丰       | 口               | 口             | コ               | コ             | コ            |       |   | 52       |                         | 丰         | 二               |                | $\Box$     | 口           | $\sqsupset$    | 丰            | ]        | F        | $\Box$                                  | 102        |                      | 口                   | コ              | 二                | 口        | 口                       | $\Box$          | 口             | $\Box$    | 1   |
| }        | -                 | 3 4      | 빔                   | $\vdash$    | +       | +               | H             | $\dashv$        | $\dashv$      | $\dashv$     |       | $\vdash$                                | 53<br>54 |                         | ╀         | ┼-              | $\vdash$       | $\vdash$   | Н           | _              | +            | -        | ┢        |   | 103        | $\vdash \vdash$      | $\vdash$            | $\dashv$       | $\dashv$         | $\vdash$ | $\dashv$                | Щ               | Н             | dash      | 1   |
| t        |                   |          | E                   | 寸           | 士       | +               | 口             | 士               | 寸             | 1            |       |   | 55       |                         | 七         | <u> </u>        |                |            |             | コ              | 士            | 1        | L        | $\exists$                               | 105        |                      |                     | 寸              |                  | 寸        |                         |                 | 口             | H         | 1   |
| I        |                   |          | $\vdash$            | $\Box$      | 工       | 口               | $\Box$        | コ               | コ             | $\Box$       |       |   | 56       |                         | 厂         | $\sqsubset$     |                | $\Box$     | $\Box$      | コ              | 工            | ]        | E        | $\Box$                                  | 106        | $\Box$               | $\Box$              | 耳              |                  | 口        | $\square$               | $\Box$          | $\Box$        | $\Box$    | 1   |
| }        | /                 |          | 14                  | $\vdash$    | +       | +               | $\vdash$      | $\dashv$        | $\dashv$      | $\dashv$     |       | <u> </u>                                | 57<br>58 |                         | +         | ₩.              | <b>├</b> ─'    | $\vdash$   | $\vdash$    | $\dashv$       | +            | -        | -        | -                                       | 107        | $\vdash$             |                     |                | $\dashv$         | ╌┪       |                         | $\vdash \vdash$ | $\vdash$      | ┦         | 1   |
| ŀ        | $\dashv$          | 9        | ##                  | $\vdash$    | +       | ++              | $\vdash$      | +               | $\dashv$      | $\dashv$     | •     |   | 59       |                         | +         | +-'             | ┦              | $\vdash$   | $\vdash$    | +              | +            | -        | -        | $\dashv$                                | 108        | $\vdash$             | $\vdash$            | $\dashv$       | +                | $\vdash$ | $\dashv$                | $\vdash$        | $\vdash$      | -         | l   |
| ľ        |                   | 10       | 世                   | 寸           | 士       | 廿               | $\Box$        | 丁               | $\exists$     | $\exists$    |       |   | 60       |                         | 士         |                 |                |            |             | 丁              | 士            | ]        | L        |   | 110        |                      | 口                   | コ              | J                | 口        | J                       | $\Box$          |               |           | ĺ   |
| Į.       | $\Box$            | 11       |                     | $\Box$      | 工       | $\Box$          | П             | コ               | $\Box$        | $\Box$       |       |   | 61       |                         | L         |                 | $\Box'$        |            | $\Box$      | $\supset$      | 工            | ]        | L        |   | 111        | $\Box$               | $\square$           | $\Box$         | $\Box$           | $\Box$   | $\Box$                  | $\Box$          |               |           | l   |
| }        |                   | 3        |                     | -           | 4       | 4-4             | +             | +               | $\dashv$      | $\dashv$     |       | <u> </u>                                | 62       |                         | ┼         | ₩               | $\sqcup$       | $\vdash$   | -           | $\dashv$       | +            | 4        | L        |   | 112        | Щ                    | $\vdash$            | $\dashv$       | $\dashv$         | $\dashv$ | $\dashv$                | Щ               | Н             | $\square$ | l   |
| }        | $\rightarrow$     | 13<br>14 | 1                   | -           | +       | ╁┤              | +             | +               | +             | $\dashv$     |       | <u> </u>                                | 63<br>64 |                         | ┼-        | ╁╌              | ┯              | $\vdash$   | $\vdash$    | +              | +            | $\dashv$ | ⊩        |   | 113<br>114 | $\vdash \vdash$      | $\vdash$            | -+             | +                | -        | $\dashv$                | H               | H             | Н         | l   |
| 1        |                   | 15       | <del>       </del>  | 1           | +       | +               | H             | 1               | 1             | 一            |       |   | 65       |                         | +         | ₩.              | H              | $\Box$     | 寸           | 十              | t            | 1        |          |   | 115        | $\vdash$             |                     | 7              | 7                | 7        | 7                       |                 | $\vdash$      | H         | ĺ   |
| [        |                   | 16       | 山                   | I           | 工       |                 |               | I               | I             | $\Box$       |       |   | 66       |                         |           |                 |                |            | $\Box$      | コ              | I            | ]        | E        |   | 116        |                      | $\Box$              | コ              | $\Box$           | $\Box$   | I                       |                 |               |           | l   |
| ļ.       |                   | 17       | $\Pi$               | 4           | 4       | $\Box$          | $\Box$        | 4               | 4             | 1            |       |   | 67       |                         | L         | $\Box$          | $\square$      | $\Box$     | $\dashv$    | $\overline{+}$ | $\dashv$     | ]        | L        |   | 117        | $\Box$               | $\overline{\dashv}$ | $\overline{+}$ | $\dashv$         | $\dashv$ | $\overline{+}$          | $\ddot{\dashv}$ | $\Box$        | $\Box$    | l   |
| }        | $\dashv$          | 18<br>19 | 4                   | $\dashv$    | +       | +-+             | H             | +               | +             | 4            | ⊪     | <del> </del>                            | 68<br>69 |                         | ╀         | ₩               | $\vdash$       | $\vdash$   | $\dashv$    | +              | +            | 4        | ⊩        |   | 118<br>119 | $\vdash$             | -                   | +              | $\dashv$         | $\dashv$ | $\dashv$                |                 | H             | $\vdash$  | I   |
| }        | $\dashv$          | 20       | 6                   | 十           | 十       | ++              | +             | 十               | +             | $\dashv$     | 1     |   | 70       |                         | +         | 1               | $\vdash$       | $\vdash$   | $\vdash$    | +              | +            | -        | 十        |   | 119        | $\vdash \vdash$      | $\dashv$            | +              | $\dashv$         | +        | 7                       | $\dashv$        | H             | H         | l   |
| [        | $\Box$            | 21       | Ĭ                   | I           | 士       | $\Box$          |               | I               | I             |              | ľ     |   | 71       | Ī                       | 世         |                 |                |            |             | I              | I            | 1        |          |   | 121        |                      |                     | $\exists$      | $\exists$        | 丁        | 丁                       | J               |               |           | l   |
| 1        |                   | 22       | T)                  | $\Box$      | 工       | 口               | $\Box$        | 耳               | コ             | $\Box$       |       |   | 72       |                         | L         | $\Box$          |                |            | $\Box$      | コ              | 工            | ]        | L        |   | 122        |                      | $\Box$              | $\exists$      | $\Box$           | $\Box$   | コ                       |                 |               |           | i   |
| ŀ        | -                 | 23<br>24 |                     | $\dashv$    | 4       | $\dashv$        | $\vdash$      | +               | +             |              | 1     | ш                                       | 73<br>74 |                         | $\vdash$  | ╨               | Ш              | H          | -           | +              | +            | 4        | -        |   | 123<br>124 | $\vdash$             | -                   | $\dashv$       | $\dashv$         | $\dashv$ | $\dashv$                | $\dashv$        | Н             | $\square$ | ĺ   |
| ŀ        | -+                | 24<br>25 | 1                   | $\dashv$    | +       | ++              | $\vdash$      | 十               | +             | $\dashv$     | ⊪     |   | 75       |                         | ₩         | $\vdash$        | $\vdash$       | $\vdash$   | _           | +              | +            | 4        | -        |   | 125        | $\vdash$             | $\dashv$            | +              | +                | +        | +                       | $\rightarrow$   | -             | H         | i . |
| Ī        | 7                 | 26)      | 门                   | 1           | $\perp$ | 1               | 一             | $\top$          | $\top$        | -            | i     |   | 76       |                         | t         |                 |                | 口          | 1           | 1              | 十            | 1        |          |   | 126        | $\vdash$             | 1                   | +              | +                | _        | 7                       |                 | $\sqcap$      | Н         | i   |
| Ţ        | $\Box$            | 27       |                     | $\sqsupset$ | 工       | $\square$       | $\Box$        | $\Box$          | $\Box$        | $\Box$       | Γ     |   | 77       |                         |           |                 | $\square$      | $\Box$     | $\Box$      | $\supset$      | ユ            | ]        | L        |   | 127        |                      |                     | $\Box$         | $\Box$           | $\Box$   | $\Box$                  | $\supset$       |               |           | i   |
| -        | $\longrightarrow$ | 28       | $\sqcup$            | +           | +       | 44              | -             | $\dashv$        | $\dashv$      | _ ∷          |       |   | 78       |                         | ₩         | $\sqcup$        | Ш              | $\vdash$   | _           | $\dashv$       | +            | 4        | -        |   | 128        | $\overline{\square}$ | $\dashv$            | $\dashv$       | $\dashv$         | 4        | $\dashv$                | $\perp$         | $\Box$        | Щ         | i   |
| ŀ        |                   | 29<br>30 | $\vdash \vdash$     | +           | +       | ╁┵              | -+            | +               | +             |              |       | لــــــا                                | 79<br>80 | ┼                       | ╀         | $\vdash$        | $\vdash\vdash$ | H          | $\dashv$    | +              | +            | -        | -        |   | 129<br>130 |                      | $\dashv$            | +              | $\dashv$         | +        | $\dashv$                | $\dashv$        | $\dashv$      | $\vdash$  | I   |
| F        | $\rightarrow$     | 31       | $\vdash \vdash$     | +           | 十       | +-+             | $\dashv$      | +               | +             | $\dashv$     | H     |   | 81       | +-                      |           | $\vdash$        |                | $\vdash$   | $\dashv$    | +              | +            | 1        | ┝        | $\dashv$                                | 131        | -                    | $\dashv$            | +              | +                | +        | +                       | _               | $\vdash$      | $\vdash$  | I   |
| t        | $\exists$         | 32       |                     | 士           |         |                 |               | 1               | コ             | $\exists$    | ľ     |   | 82       |                         |           |                 |                | 口          | I           | 士              | 士            | 1        | L        |   | 132        | $\Box$               | 丁                   | $\exists$      | 1                | 士        | 士                       | $\exists$       | 寸             | 口         | İ   |
| Į.       | $\Box$            | 33       | $\Box$              | 耳           | 工       | 口               | 耳             | コ               | コ             | $\Box$       |       | $\equiv$                                | 83       |                         |           |                 |                | 口          | $\sqsupset$ | コ              | 工            | ]        | L        |   | 133        | $\Box$               | $\supset$           | コ              | $\Box$           | 工        | コ                       | $\Box$          | $\Box$        |           | 1   |
| -        |                   | 34       | $\Box$              | $\dashv$    | 4       | 14              | +             | 4               | 4             | 4            | ⊪     | لــــــــــــــــــــــــــــــــــــــ | 84       |                         | $\square$ | Ш               | Ш              | Н          | $\dashv$    | 4              | $\downarrow$ | ]        | L        |   | 134        | $\overline{\square}$ | _                   | $\exists$      | $\exists$        | 4        | $\overline{\downarrow}$ | $\exists$       | $\Box$        | $\Box$    | 1   |
| · }      |                   | 35<br>36 | $\vdash$            | +           | +-      | ╁┼              | +             | +               | +             | -            | •     |   | 85<br>86 |                         | ₩         | $\vdash$        | $\vdash$       | $\vdash$   | $\dashv$    | +              | +            | 4        | -        |   | 135<br>136 | $\vdash$             | +                   | +              | $\dashv$         | +        | $\dashv$                | -               | $\rightarrow$ | H         | 1   |
| r        | $\rightarrow$     | 37       | 1                   | +           | +       | ++              | +             | 十               | +             | $\dashv$     | iii t |   | 87       |                         |           | $\vdash$        | $\vdash$       | $\vdash$   | +           | +              | 十            | 1        | $\vdash$ |   | 137        | $\vdash$             | +                   | +              | +                | +        | +                       | +               | $\dashv$      | H         | 1   |
| [        |                   | 38       |                     | コ           | 工       | $\Box$          | $\pm$         | 士               | I             |              |       |   | 88       |                         |           |                 |                | 口          | 丁           | 1              | 士            | 1        |          |   | 138        |                      | $\exists$           | $\exists$      | $\exists$        | 士        | 士                       | 士               | J             |           | 1   |
| Į.       |                   | 39       | $\Box$              | 工           | 工       | $\square$       | ユ             | コ               | コ             | $\Box$       |       | $\Box$                                  | 89       |                         |           |                 | $\Box$         | $\Box$     | $\supset$   | コ              | 工            | ]        |          |   | 139        | $\Box$               | コ                   | 口              | コ                | $\Box$   | 口                       | 口               | $\Box$        | $\Box$    | ı   |
| F        |                   | 40       |                     | +           | 4       | <del>↓</del> -∔ | +             | +               | +             | 4            | 1     |   | 90       | ₩                       | ₽         | Ш               | Ш              | $\dashv$   | +           | +              | +            | 4        | L        |   | 140        | $\dashv$             | $\dashv$            | _              | 4                | $\dashv$ | 4                       | $\dashv$        | $\dashv$      | $\dashv$  | į   |
| ⊦        |                   | 41       | $\vdash$            | +           | +       | ╁┼              | +             | +               | +             | -            | ₽     |   | 91<br>92 |                         | ₩         | H               | $\mapsto$      | +          | +           | +              | +            | -        | ⊩        |   | 141<br>142 | $\dashv$             | +                   | +              | +                | +        | +                       | -+              |               | H         |     |
| r        |                   | 43       | $\vdash$            | 十           | 十       | ++              | 十             | 十               | 十             | -            | ı     |   | 93       |                         | $\vdash$  | $\vdash \vdash$ | $\vdash$       | 一          | 十           | +              | +            | ╢        | $\vdash$ |   | 143        | 一十                   | +                   | 十              | +                | +        | +                       | +               | $\dashv$      | $\dashv$  |     |
|          |                   | 44       |                     | 士           | 土       | 廿               | 士             | 士               | 士             | ╗            | ľ     |   | 94       | 世                       |           |                 |                | $\Box$     | コ           | 士              | 士            |          | L        |   | 144        | 寸                    | コ                   | コ              | 士                | 士        | 丁                       | コ               | コ             | コ         |     |
| L        |                   | 45.      | 口                   | ユ           | 工       | $\Box$          | ユ             | ユ               | Į             | $\square$    | 1     | $\Box$                                  | 95       | $\Box$                  |           |                 |                | 耳          | コ           | ユ              | 工            | ]        | L        |   | 145        | $\Box$               | 耳                   | ユ              | ユ                | コ        | ユ                       | $\sqsupset$     | $\sqsupset$   | $\Box$    |     |
| }        |                   | 46       | $\vdash$            | +           | +-      | ++              | +             | +               | +             | 4            | #     | $\longrightarrow$                       | 96       | igspace                 | $\sqcup$  | $\sqcup$        | $\dashv$       |            | +           | +              | +            | ┦        | -        |   | 146        | $\dashv$             | +                   | +              | +                | 4        | +                       | -               | $\dashv$      | $\dashv$  | ı   |
| <b>-</b> |                   | 47       | <del>  -</del>      | +           | +       | ╀               | +             | +               | 十             | $\dashv$     | ⊪     |   | 97<br>98 | ₩                       |           | $\vdash$        | $\rightarrow$  | _          | +           | +              | +            | ┨        | -        |   | 147        | $\dashv$             | +                   | +              | +                | +        | +                       | +               | $\dashv$      | $\dashv$  |     |
| <u> </u> |                   | 49       | 一十                  | +           | +       | +               | 十             | 十               | 十             | -            | ⊪     | -                                       | 99       | <del>     </del>        | H         | 1               | $\vdash$       | $\dashv$   | +           | +              | +            | ╢        | ╟        |   | 149        | $\dashv$             | +                   | 十              | +                | +        | +                       | +               | 十             | $\dashv$  | ,   |
| [        | $\Box$            | 50       |                     | 工           | 工       | 旦               | 工             | 工               | ユ             |              | -     | $\Box$                                  | 100      |                         |           | $\Box$          | コ              | ユ          | ユ           | 工              | 工            |          |          | 二                                       | 150        | 二                    | ユ                   | 土              | 士                | 土        | 士                       | 士               | 士             | $\exists$ | ļ   |